

Title (en)
Process for producing aldehyde

Title (de)
Verfahren zur Herstellung von Aldehyden

Title (fr)
Procédé pour la préparation d' aldéhydes

Publication
EP 1312598 A1 20030521 (EN)

Application
EP 03003927 A 19991210

Priority
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Abstract (en)
A process for producing an aldehyde, which comprises a reaction step of producing an aldehyde by reacting an olefinic compound with carbon monoxide and hydrogen in the presence of a rhodium complex catalyst comprising at least rhodium and an organic phosphite in a reaction zone, a separation step of obtaining a catalyst solution containing the rhodium complex catalyst by separating the aldehyde from a reaction solution taken from the reaction zone, and a recycling step of recycling the catalyst solution into the reaction zone, wherein from 0.0001 to 5 time mols of an organic phosphonate of the formula (a) is present to rhodium in the catalyst solution, $HP(O)(OX_{<1>})(OX_{<2>})$ wherein $X_{<1>}$ is hydrogen or a monovalent organic group, $X_{<2>}$ is a monovalent organic group, and $X_{<1>}$ and $X_{<2>}$ may be bonded to form a divalent organic group.

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Citation (search report)
• [A] WO 8707261 A2 19871203 - UNION CARBIDE CORP [US]
• [A] EP 0590611 A1 19940406 - UNION CARBIDE CHEM PLASTIC [US]
• [A] EP 0503564 A2 19920916 - MITSUBISHI CHEM IND [JP]

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EP2567949A1; US8404902B2; WO2009146984A1; TWI447107B

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DE

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EP 1008581 A1 20000614; **EP 1008581 B1 20040421**; CN 1163463 C 20040825; CN 1256262 A 20000614; DE 69916560 D1 20040527; DE 69916560 T2 20050414; DE 69923801 D1 20050324; DE 69923801 T2 20060323; EP 1312598 A1 20030521; EP 1312598 B1 20050216; MY 124674 A 20060630; MY 139272 A 20090930; US 2002049355 A1 20020425; US 6291717 B1 20010918; US 6583324 B2 20030624

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